For Research Use Only

NRG1, isoform SMDF Recombinant monoclonal antibody

Catalog Number:83323-6-RR 1 Publications

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Basic Information

Catalog Number:
83323-6-RR

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0803

GenBank Accession Number:
BC007675

GeneID (NCBI):
3084

UNIPROT ID:
Q02297

Full Name:
neuregulin 1

Calculated MW:
70 kDa

Observed MW:
70 kDa

Purification Method:
Protein A purification

CloneNo.:
240184G2

Recommended Dilutions:
IHC: 1:50-1:500
IF-P: 1:125-1:500
IF/ICC: 1:50-1:500

Applications

Tested Applications:
IHC, IF/ICC, IF-P, ELISA

Cited Applications:
IHC

Species Specificity:
human, mouse, rat

Cited Species:
mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse cerebellum tissue, mouse stomach tissue

IF-P : rat brain tissue,

IF/ICC : MCF-7 cells,

Background Information

Neuregulin 1 (NRG1) is a trophic factor that has been implicated in neural development, neurotransmission, and synaptic plasticity. NRG1 has multiple isoforms that are generated by usage of different promoters and alternative splicing of a single gene. NRG1 and its receptor ErbB tyrosine kinase are expressed not only in the developing nervous system, but also in the adult brain. The immunogen of this antibody is against NRG1 isoform SMDF.

Notable Publications

Author	Pubmed ID	Journal	Application
QIAN LI	41891984	Int J Oncol	IHC

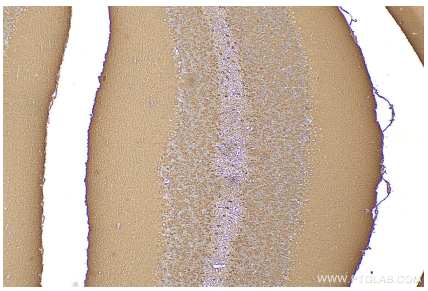
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

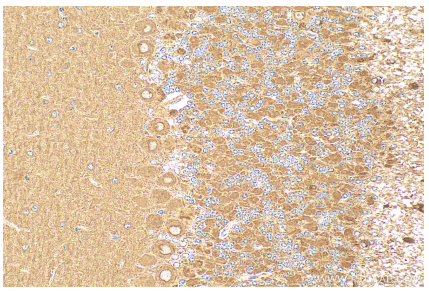
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

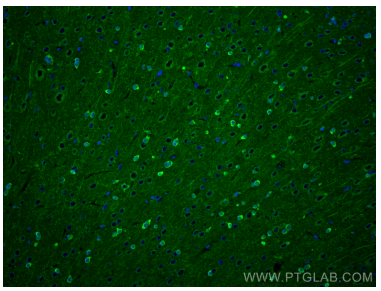
Selected Validation Data



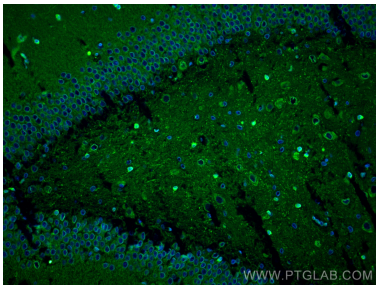
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83323-6-RR (NRG1, isoform SMDF antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



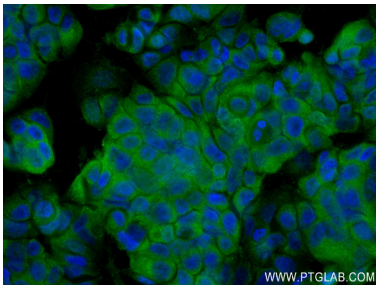
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83323-6-RR (NRG1, isoform SMDF antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



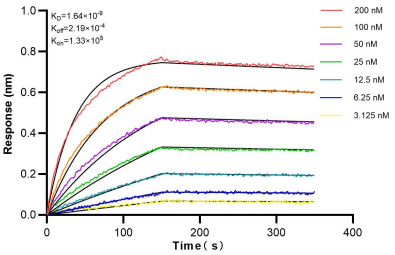
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using NRG1, isoform SMDF antibody (83323-6-RR, Clone: 240184G2) at dilution of 1:250 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using NRG1, isoform SMDF antibody (83323-6-RR, Clone: 240184G2) at dilution of 1:250 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using NRG1, isoform SMDF antibody (83323-6-RR, Clone: 240184G2) at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



Biolayer interferometry (BLI) kinetic assays of 83323-6-RR against Human NRG1, isoform SMDF were performed. The affinity constant is 1.64 nM.